Blakely, Sokoloff, Taylor & Zafman LLP    (310) 207-3800
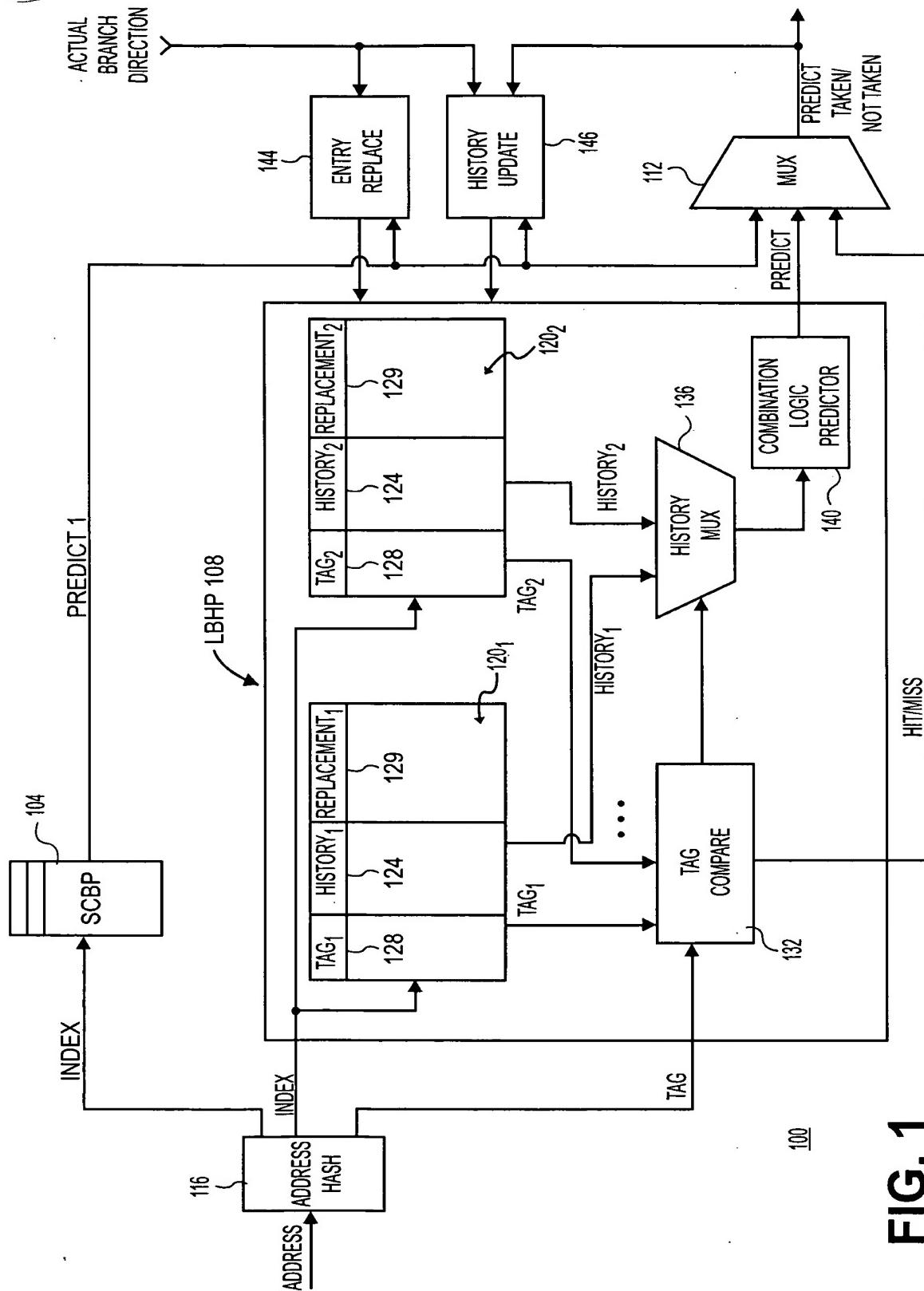Title:  BRANCH PREDICTOR WITH SATURATING COUNTER AND
LOCAL BRANCH HISTORY TABLE WITH ALGORITHM FOR UPDATING
REPLACEMENT AND HISTORY FIELDS OF MATCHING TABLE ENTRIES
1st Named Inventor:  Vincent E. Hummel
Application No.:  09/535,765          Docket No.:  42390P5567
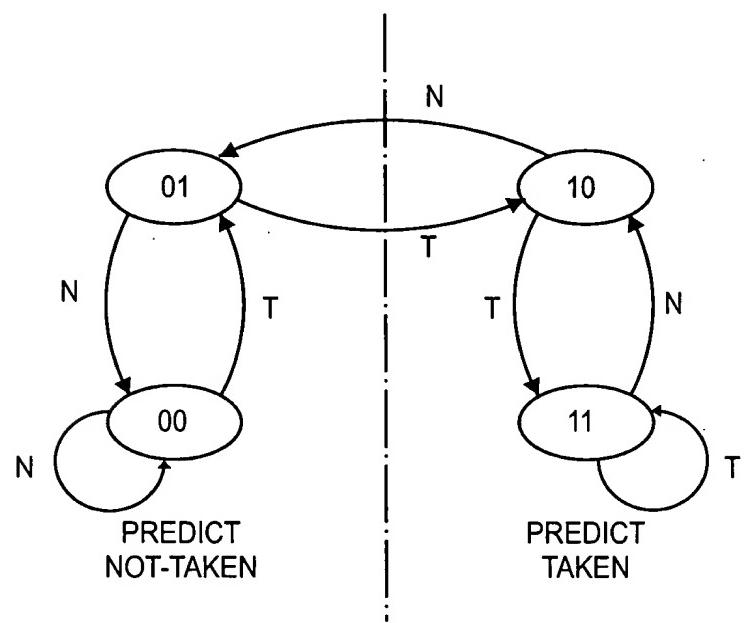Sheet:  1/4

FIG. 1

Blakely, Sokoloff, Taylor & Zatman LLP                    (310) 201-3800
Title: BRANCH PREDICTOR WITH SATURATING COUNTER AND LOCAL
BRANCH HISTORY TABLE WITH ALGORITHM FOR UPDATING
REPLACEMENT AND HISTORY FIELDS OF MATCHING TABLE ENTRIES
1st Named Inventor: Vincent E. Hummel
Application No.: 09/535,765          Docket No.: 42390P5567
Sheet: 2/4

**FIG. 2**

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Title: BRANCH PREDICTOR WITH SATURATING COUNTER AND LOCAL
BRANCH HISTORY TABLE WITH ALGORITHM FOR UPDATING
REPLACEMENT AND HISTORY FIELDS OF MATCHING TABLE ENTRIES
1st Named Inventor: Vincent E. Hummel
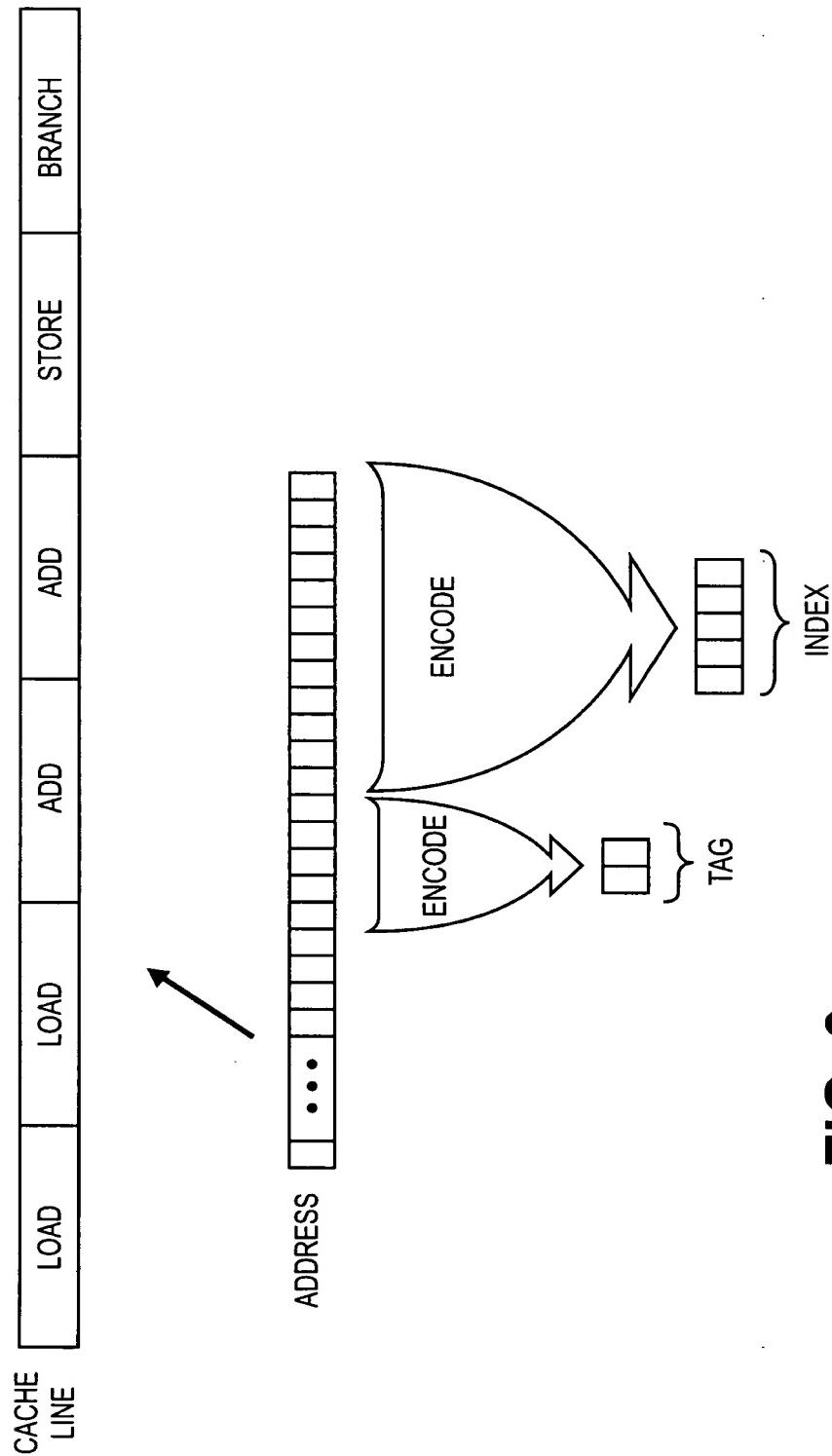Application No.: 09/535,765            Docket No.: 42390P5567
Sheet: 3/4

CACHE LINE

| LOAD | LOAD | LOAD | ADD | ADD | STORE | BRANCH |
|------|------|------|-----|-----|-------|--------|

ADDRESS

ENCODE → INDEX

ENCODE → TAG

# FIG. 3

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Title: BRANCH PREDICTOR WITH SATURATING COUNTER AND
LOCAL BRANCH HISTORY TABLE WITH ALGORITHM FOR UPDATING
REPLACEMENT AND HISTORY FIELDS OF MATCHING TABLE ENTRIES
1st Named Inventor: Vincent E. Hummel
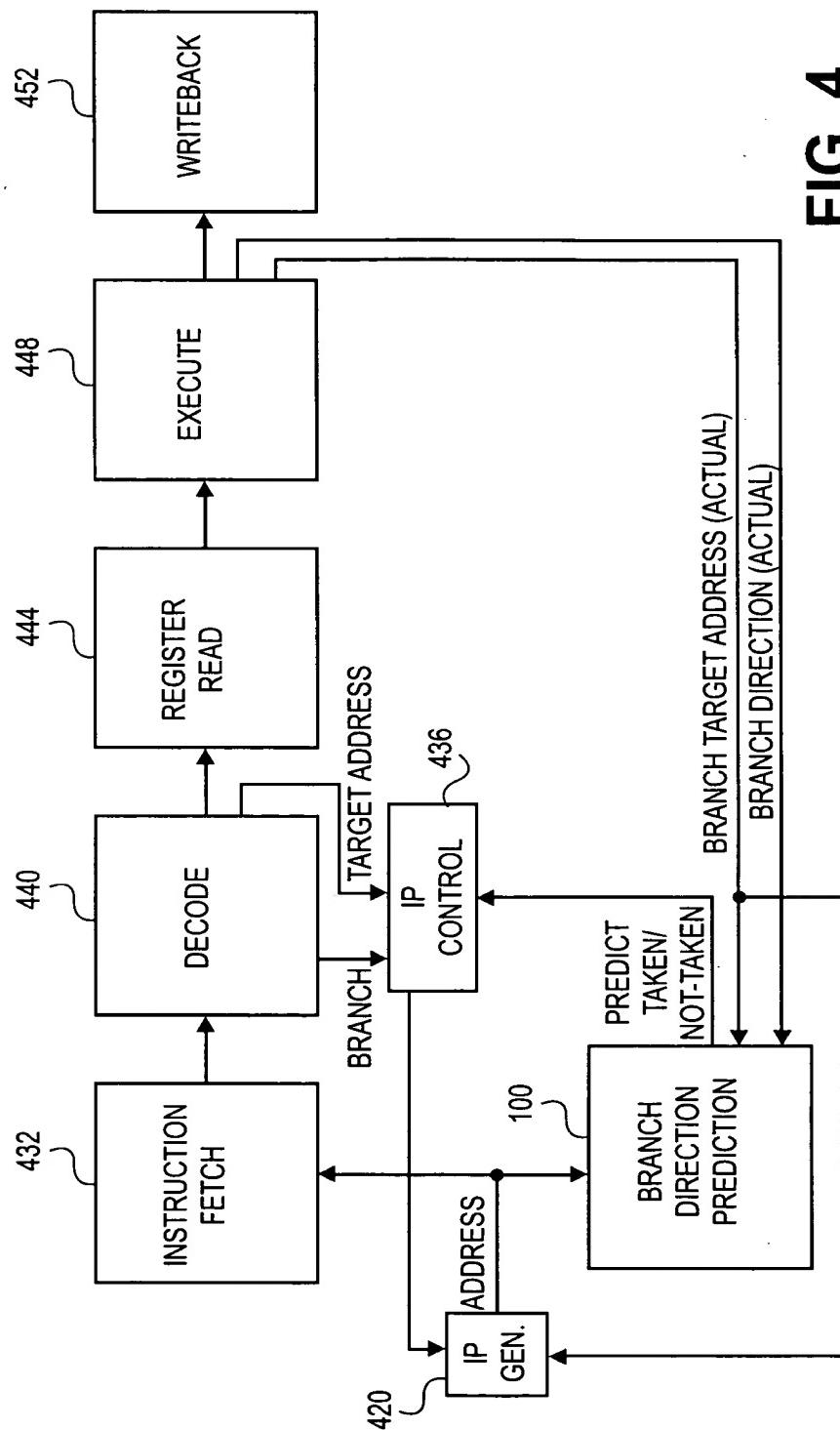Application No.: 09/535,765          Docket No.: 42390P5567
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FIG. 4